

App. No. 09/506347
Amd. Dated November 6, 2003
Office Action Dated August 12, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Claims 9-13 and 31 are canceled without prejudice or disclaimer.

Listing of Claims:

1. (Previously Presented) A method of manufacturing an optical head comprising a light source, an objective lens, a reflecting mirror that reflects beams of light from the light source to allow them to enter the objective lens, and an optical bench for maintaining the light source and the reflecting mirror, the method comprising:

placing the reflecting mirror and the optical bench on an external jig provided with a mirror holding portion for maintaining the reflecting mirror,

bonding and fixing the reflecting mirror and the optical bench, with a reflecting plane of the reflecting mirror in contact with the mirror holding portion so as to specify a mounting angle of the reflecting mirror in a plane including an axis of light incident on and an axis of light reflected from the reflecting mirror, and

after bonding and fixing the reflecting mirror and the optical bench, demounting the optical head having the light source, the reflecting mirror, and the optical bench from the external jig.

2. (canceled)

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3. (Previously Presented) The method of manufacturing an optical head according to claim 1, wherein a mounting angle of the reflecting mirror about an axis of light incident on the objective lens is specified by bringing the reflecting mirror into contact with an angle reference plane of the mirror holding portion.
4. (Original) The method of manufacturing an optical head according to claim 1, wherein a position of the reflecting mirror in a direction parallel to a reflecting plane of the reflecting mirror is specified by bringing the reflecting mirror into contact with the mirror holding portion.
5. (Original) The method of manufacturing an optical head according to claim 1, wherein the reflecting mirror is not brought into direct contact with the optical bench.
6. (Original) The method of manufacturing an optical head according to claim 1, wherein the reflecting mirror is bonded and fixed at vicinities of approximate centers of its two opposed side faces approximately orthogonal to a reflecting plane of the reflecting mirror.

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7. (Original) The method of manufacturing an optical head according to claim 1, wherein the reflecting mirror has a flat-plate shape.

8. (Original) The method of manufacturing an optical head according to claim 1, wherein the reflecting mirror and the optical bench are bonded and fixed using a UV adhesive.

9-27 (Canceled).

28. (Previously Presented) The method of manufacturing an optical head according to claim 1, wherein the mirror holding portion includes a positioning wall along an optical axis direction of the light source and positions the reflecting mirror in the optical axis direction of the light source by bringing the reflecting mirror into contact with the positioning wall.

29. (Withdrawn) The method of manufacturing an optical head according to claim 1, wherein the mirror holding portion includes a positioning wall along a direction perpendicular to an optical axis of the light source and positions the reflecting mirror in the direction perpendicular to the optical axis of the light source by bringing the reflecting mirror into contact with the positioning wall.

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30. (Previously Presented) The method of manufacturing an optical head according to claim 1, wherein the optical bench includes a positioning wall along a direction perpendicular to an optical axis of the light source and positions the reflecting mirror in the direction perpendicular to the optical axis of the light source by bringing the reflecting mirror into contact with the positioning wall.

31. (Canceled)